

Layer (type)	Output Shape	Param #
input_1 (InputLayer)	(None, 1)	0
lambda_1 (Lambda)	(None, 512)	0
dense_1 (Dense)	(None, 128)	65664
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 1)	129
Total params: 65,793		
Trainable params: 65,793		
Non-trainable params: 0		

Train on 90000 samples, validate on 15000 samples

Epoch 1/20
90000/90000 [=====] - 325s 4ms/step - loss: 0.3541 - acc: 0.8448 - val_loss: 0.3394 - val_acc: 0.8512
Epoch 2/20
90000/90000 [=====] - 317s 4ms/step - loss: 0.3226 - acc: 0.8602 - val_loss: 0.3186 - val_acc: 0.8603
Epoch 3/20
90000/90000 [=====] - 317s 4ms/step - loss: 0.3127 - acc: 0.8655 - val_loss: 0.3088 - val_acc: 0.8665
Epoch 4/20
90000/90000 [=====] - 318s 4ms/step - loss: 0.3040 - acc: 0.8685 - val_loss: 0.3116 - val_acc: 0.8661
Epoch 5/20
90000/90000 [=====] - 316s 4ms/step - loss: 0.2974 - acc: 0.8715 - val_loss: 0.2993 - val_acc: 0.8717
Epoch 6/20
90000/90000 [=====] - 205s 2ms/step - loss: 0.2923 - acc: 0.8761 - val_loss: 0.2957 - val_acc: 0.8745
Epoch 7/20
90000/90000 [=====] - 162s 2ms/step - loss: 0.2864 - acc: 0.8770 - val_loss: 0.2946 - val_acc: 0.8759
Epoch 8/20
90000/90000 [=====] - 160s 2ms/step - loss: 0.2814 - acc: 0.8808 - val_loss: 0.2914 - val_acc: 0.8750
Epoch 9/20
90000/90000 [=====] - 162s 2ms/step - loss: 0.2773 - acc: 0.8826 - val_loss: 0.2853 - val_acc: 0.8783
Epoch 10/20
90000/90000 [=====] - 162s 2ms/step - loss: 0.2709 - acc: 0.8852 - val_loss: 0.2848 - val_acc: 0.8790
Epoch 11/20
90000/90000 [=====] - 161s 2ms/step - loss: 0.2667 - acc: 0.8879 - val_loss: 0.2783 - val_acc: 0.8818
Epoch 12/20
90000/90000 [=====] - 161s 2ms/step - loss: 0.2628 - acc: 0.8898 - val_loss: 0.2755 - val_acc: 0.8841
Epoch 13/20
90000/90000 [=====] - 162s 2ms/step - loss: 0.2588 - acc: 0.8932 - val_loss: 0.2754 - val_acc: 0.8823
Epoch 14/20
90000/90000 [=====] - 163s 2ms/step - loss: 0.2557 - acc: 0.8928 - val_loss: 0.2716 - val_acc: 0.8861
Epoch 15/20
90000/90000 [=====] - 162s 2ms/step - loss: 0.2511 - acc: 0.8963 - val_loss: 0.2731 - val_acc: 0.8859
Epoch 16/20
90000/90000 [=====] - 162s 2ms/step - loss: 0.2467 - acc: 0.8974 - val_loss: 0.2677 - val_acc: 0.8877
Epoch 17/20
90000/90000 [=====] - 162s 2ms/step - loss: 0.2426 - acc: 0.8993 - val_loss: 0.2652 - val_acc: 0.8907
Epoch 18/20
90000/90000 [=====] - 162s 2ms/step - loss: 0.2382 - acc: 0.9023 - val_loss: 0.2673 - val_acc: 0.8912
Epoch 19/20
90000/90000 [=====] - 162s 2ms/step - loss: 0.2353 - acc: 0.9037 - val_loss: 0.2579 - val_acc: 0.8951
Epoch 20/20
90000/90000 [=====] - 162s 2ms/step - loss: 0.2321 - acc: 0.9047 - val_loss: 0.2614 - val_acc: 0.8938
45000/45000 [=====] - 65s 1ms/step

Test score: 0.25664550353686016

Test accuracy: 0.8935111111111111

